

NEWS RELEASE



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Occupational Employment and Wages in Warren-Troy-Farmington Hills, Mich. Metropolitan Division – May 2013

Workers in the Warren-Troy-Farmington Hills Metropolitan Division had an average (mean) hourly wage of \$22.80 in May 2013, about 2 percent above the nationwide average of \$22.33, according to the U.S. Bureau of Labor Statistics. Regional Commissioner Charlene Peiffer noted that, after testing for statistical significance, wages in the local area were significantly higher than their respective national averages in 4 of the 22 major occupational groups, including construction and extraction; sales and related; and production. Five groups had significantly lower wages than their respective national averages, including computer and mathematical; life, physical, and social science; and protective service.

When compared to the nationwide distribution, local employment was more highly concentrated in 7 of the 22 occupational groups, including production; architecture and engineering; and sales and related. Conversely, 13 groups had employment shares significantly below their national representation, including education, training, and library; transportation and material moving; and construction and extraction. (See table A and box note at end of release.)

Table A. Occupational employment and wages by major occupational group, United States and the Warren-Troy-Farmington Hills Metropolitan Division, and measures of statistical significance, May 2013

	Percent of total employment		Mean hourly wage			
Major occupational group	United States	Warren	United States	Warren	Percent difference (1)	
Total, all occupations	100.0%	100.0%	\$22.33	\$22.80*	2	
Management	4.9	5.3*	53.15	52.87	-1	
Business and financial operations	5.0	5.2	34.14	33.62	-2	
Computer and mathematical	2.8	3.4*	39.43	33.84*	-14	
Architecture and engineering	1.8	4.5*	38.51	37.72	-2	
Life, physical, and social science	0.9	0.3*	33.37	29.41*	-12	
Community and social services	1.4	0.9*	21.50	22.02	2	
Legal	0.8	0.9*	47.89	46.39	-3	
Education, training, and library	6.3	4.4*	24.76	24.95	1	
Arts, design, entertainment, sports, and media	1.3	1.2*	26.72	25.82	-3	
Healthcare practitioner and technical	5.8	5.9	35.93	36.32	1	

Note: See footnotes at end of table.

Table A. Occupational employment and wages by major occupational group, United States and the Warren-Troy-Farmington Hills Metropolitan Division, and measures of statistical significance, May 2013 - Continued

	Percent of total employment		Mean hourly wage			
Major occupational group	United States	Warren	United States	Warren	Percent difference (1)	
Healthcare support	3.0	3.4*	13.61	13.06*	-4	
Protective service	2.5	1.6*	20.92	19.43*	-7	
Food preparation and serving related	9.0	8.7*	10.38	10.24	-1	
Building and grounds cleaning and maintenance	3.2	2.9*	12.51	12.25	-2	
Personal care and service	3.0	2.7*	11.88	11.65	-2	
Sales and related	10.6	11.5*	18.37	19.67*	7	
Office and administrative support	16.2	15.4*	16.78	16.53	-1	
Farming, fishing, and forestry	0.3	(2) *	11.70	13.14*	12	
Construction and extraction	3.8	2.7*	21.94	23.46*	7	
Installation, maintenance, and repair	3.9	3.5*	21.35	21.13	-1	
Production	6.6	10.5*	16.79	17.50*	4	
Transportation and material moving	6.8	4.9*	16.28	15.41*	-5	

⁽¹⁾ A positive percent difference measures how much the mean wage in Warren is above the national mean wage, while a negative difference reflects a lower wage.

One occupational group—production—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Warren-Troy-Farmington Hills had 117,030 jobs in production, accounting for 10.5 percent of local area employment, significantly higher than the 6.6-percent share nationally. The average hourly wage for this occupational group locally was \$17.50, measurably above the national wage of \$16.79.

With employment of 25,530, team assemblers was the largest occupation within the production group, followed by machinists (9,910) and inspectors, testers, sorters, samplers, and weighers (8,000). Among the higher paying jobs were power plant operators along with painters, transportation equipment, with mean hourly wages of \$35.14 and \$31.19, respectively. At the lower end of the wage scale were pressers of textile, garment, and related materials (\$9.83) and meat, poultry, and fish cutters and trimmers (\$11.19). (Detailed occupational data for production are presented in <u>table 1</u>; for a complete listing of detailed occupations available go to <u>www.bls.gov/oes/2013/may/oes_47644.htm</u>).

Location quotients allow for the exploration of an area's occupational make-up by comparing the composition of jobs in an area relative to the national average. (See <u>table 1</u>.) For example, a location quotient of 2.0 indicates that an occupation accounts for twice the share of employment in the area than it does nationally. In the Warren-Troy-Farmington Hills Metropolitan Division, above average concentrations of employment were found in many of the occupations within the production group. For instance, model makers of metal and plastic were employed at 11.6 times the national rate in Warren, and forging machine setters, operators, and tenders of metal and plastic, at 8.8 times the U.S. average. On the other hand, structural metal fabricators and fitters had a location quotient of 1.0 in Warren, indicating that this particular occupation's local and national employment shares were similar.

These statistics are from the Occupational Employment Statistics (OES) survey, a federal-state cooperative program between BLS and State Workforce Agencies, in this case, the Michigan Department of Labor Economic Growth.

⁽²⁾ Indicates a value of less than 0.05 percent

^{*} The percent share of employment or mean hourly wage for this area is significantly different from the national average of all areas at the 90-percent confidence level.

OES wage and employment data for the 22 major occupational groups in the Warren Metropolitan Division were compared to their respective national averages based on statistical significance testing. Only those occupations with wages or employment shares above or below the national wage or share after testing for significance at the 90-percent confidence level meet the criteria.

Note: A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance. Statistical significance is concerned with the ability to make confident statements about a universe based on a sample. It is entirely possible that a large difference between two values is not significantly different statistically, while a small difference is, since both the size and heterogeneity of the sample affect the relative error of the data being tested.

Technical Note

The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. Guam, Puerto Rico, and the Virgin Islands are also surveyed, but their data are not included in the national estimates. OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 sampled establishments in May and November each year for a 3-year period. May 2013 estimates are based on responses from six semiannual panels collected in May 2013, November 2012, May 2012, November 2011, May 2011, and November 2010. The overall national response rate for the six panels is 75.3 percent based on establishments and 71.6 percent based on employment. The sample in the Warren-Troy-Farmington Hills Metropolitan Division included 5,840 establishments with a response rate of 74 percent. For more information about OES concepts and methodology, go to www.bls.gov/news.release/ocwage.tn.htm.

The OES survey provides estimates of employment and hourly and annual wages for wage and salary workers in 22 major occupational groups and 821 detailed occupations for the nation, states, metropolitan statistical areas, metropolitan divisions, and nonmetropolitan areas. In addition, employment and wage estimates for 94 minor groups and 458 broad occupations are available in the national data. OES data by state and metropolitan/nonmetropolitan area are available from www.bls.gov/oes/current/oessrcst.htm and www.bls.gov/oes/cur

The May 2013 OES estimates are based on the 2010 Standard Occupational Classification (SOC) system and the 2012 North American Industry Classification System (NAICS). Information about the 2010 SOC is available on the BLS website at $\underline{www.bls.gov/soc}$ and information about the 2012 NAICS is available at $\underline{www.bls.gov/bls/naics.htm}$.

Area definitions

The substate area data published in this release reflect the standards and definitions established by the U.S. Office of Management and Budget.

The Warren-Troy-Farmington Hills, Mich. Metropolitan Division includes Lapeer, Livingston, Macomb, Oakland, and St. Clair Counties.

Additional information

OES data are available on our regional web page at www.bls.gov/regions/midwest. Answers to frequently asked questions about the OES data are available at www.bls.gov/oes/oes_ques.htm. Detailed technical information about the OES survey is available in our Survey Methods and Reliability Statement on the BLS website at www.bls.gov/oes/2013/may/methods_statement.pdf. Information in this release will be made available to sensory impaired individuals upon request — Voice phone: 202-691-5200; Federal Relay Service: 1-800-877-8339.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Warren-Troy-Farmington Hills Metropolitan Division, May 2013

	Emplo		Mean wages	
Occupation (1)<	Level (2)	Location quotient ⁽³⁾	Hourly	Annual ⁽⁴⁾
Production Occupations	117,030	1.6	\$17.50	\$36,410
First-Line Supervisors of Production and Operating Workers	6,080	1.3	29.96	62,320
Coil Winders, Tapers, and Finishers	70	0.6	14.62	30,410
Electrical and Electronic Equipment Assemblers	1,900	1.1	15.47	32,180
Electromechanical Equipment Assemblers	130	0.3	17.40	36,190
Engine and Other Machine Assemblers	730	2.2	24.32	50,590
Structural Metal Fabricators and Fitters	650	1.0	20.26	42,130
Fiberglass Laminators and Fabricators	50	0.3	15.17	31,550
Team Assemblers	25,530	2.9	15.92	33,120
Assemblers and Fabricators, All Other	4,800	2.3	13.61	28,300
Bakers	1,400	1.0	13.39	27,850
Butchers and Meat Cutters	720	0.6	15.64	32,540
Meat, Poultry, and Fish Cutters and Trimmers	690	0.5	11.19	23,280
Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	40	0.2	13.60	28,290
Food Batchmakers	320	0.4	13.41	27,900
	60	0.4	10.46	21,760
Food Processing Workers, All Other	2,800		18.42	38,310
Computer-Controlled Machine Tool Operators, Metal and Plastic Computer Numerically Controlled Machine Tool Programmers, Metal		2.4		
and Plastic Extruding and Drawing Machine Setters, Operators, and Tenders,	560	2.7	23.86	49,640
Metal and Plastic	1,150	1.9	14.66	30,490
Forging Machine Setters, Operators, and Tenders, Metal and Plastic.	1,670	8.8	13.21	27,470
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	310	1.1	15.52	32,280
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	4,750	3.0	16.49	34,290
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	350	2.1	18.51	38,500
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,170	2.0	17.55	36,510
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	680	2.0	17.93	37,290
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	470	2.3	18.71	38,920
Machinists	9,910	3.0	20.32	42,270
Metal-Refining Furnace Operators and Tenders	50	0.3	14.97	31,130
Model Makers, Metal and Plastic	600	11.6	26.10	54,280
Patternmakers, Metal and Plastic	(5)	(5)	21.71	45,150
Foundry Mold and Coremakers	50	0.4	17.53	36,470
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	3,400	3.2	13.20	27,450
Multiple Machine Tool Setters, Operators, and Tenders, Metal and				
Plastic	2,630	3.4	16.14	33,570
Tool and Die Makers	4,580	6.9	25.62	53,300
Welders, Cutters, Solderers, and Brazers	2,640	0.9	17.37	36,130
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	510	1.2	15.42	32,060
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	950	5.3	14.09	29,310
Layout Workers, Metal and Plastic	(5)	(5)	23.63	49,140
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	680	2.3	13.26	27,570

Note: See footnotes at end of table.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Warren-Troy-Farmington Hills Metropolitan Division, May 2013 - Continued

	Emplo	yment	Mean wages	
(4)-	(2)	Location		
Occupation (1)<	Level (2)	quotient (3)	Hourly	Annual (4)
Tool Grinders, Filers, and Sharpeners	(5)	(5)	21.31	44,320
Metal Workers and Plastic Workers, All Other	500	2.7	14.81	30,800
Prepress Technicians and Workers	300	0.9	17.82	37,070
Printing Press Operators	850	0.6	16.23	33,750
Print Binding and Finishing Workers	260	0.6	14.73	30,640
Laundry and Dry-Cleaning Workers	1,310	0.8	11.31	23,520
Pressers, Textile, Garment, and Related Materials	260	0.6	9.83	20,440
Sewing Machine Operators	800	0.7	11.85	24,650
Tailors, Dressmakers, and Custom Sewers	720	4.0	14.11	29,350
Textile Cutting Machine Setters, Operators, and Tenders	40	0.3	14.92	31,040
Textile Knitting and Weaving Machine Setters, Operators, and				
Tenders	40	0.2	12.64	26,290
Upholsterers	60	0.3	14.59	30,350
Textile, Apparel, and Furnishings Workers, All Other	50	0.4	11.59	24,110
Cabinetmakers and Bench Carpenters	470	0.7	16.60	34,520
Furniture Finishers	60	0.5	14.50	30,160
Patternmakers, Wood	70	9.2	21.34	44,390
Sawing Machine Setters, Operators, and Tenders, Wood	(5)	(5)	14.24	29,620
Woodworking Machine Setters, Operators, and Tenders, Except				
Sawing	90	0.2	15.20	31,610
Power Plant Operators	130	0.4	35.14	73,100
Stationary Engineers and Boiler Operators	60	0.2	32.90	68,440
Water and Wastewater Treatment Plant and System Operators	350	0.4	22.41	46,610
Chemical Plant and System Operators	90	0.3	18.91	39,330
Gas Plant Operators	140	1.2	30.99	64,450
Chemical Equipment Operators and Tenders	220	0.4	19.24	40,010
Separating, Filtering, Clarifying, Precipitating, and Still Machine				
Setters, Operators, and Tenders	130	0.4	16.21	33,710
Crushing, Grinding, and Polishing Machine Setters, Operators, and				
Tenders	(5)	(5)	17.79	36,990
Grinding and Polishing Workers, Hand	200	0.8	13.61	28,310
Mixing and Blending Machine Setters, Operators, and Tenders	1,230	1.3	16.73	34,810
Cutting and Slicing Machine Setters, Operators, and Tenders	420	0.8	15.49	32,210
Extruding, Forming, Pressing, and Compacting Machine Setters,				
Operators, and Tenders	250	0.4	14.10	29,340
Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	150	0.9	18.66	38,800
Inspectors, Testers, Sorters, Samplers, and Weighers	8,000	2.0	17.53	36,470
Jewelers and Precious Stone and Metal Workers	370	1.9	18.00	37,440
Dental Laboratory Technicians	640	2.1	20.73	43,110
Medical Appliance Technicians	(5)	(5)	34.82	72,430
Ophthalmic Laboratory Technicians	660	2.7	17.68	36,760
Packaging and Filling Machine Operators and Tenders	1,090	0.4	14.54	30,230
Coating, Painting, and Spraying Machine Setters, Operators, and				
Tenders	1,530	2.1	13.00	27,040
Painters, Transportation Equipment	340	0.9	31.19	64,870

Note: See footnotes at end of table.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Warren-Troy-Farmington Hills Metropolitan Division, May 2013 - Continued

	Employment		Mean wages	
Occupation (1)<	Level (2)	Location quotient ⁽³⁾	Hourly	Annual (4)
Painting, Coating, and Decorating Workers	110	0.8	14.80	30,780
Photographic Process Workers and Processing Machine Operators	290	1.0	14.65	30,480
Cleaning, Washing, and Metal Pickling Equipment Operators and				
Tenders	100	0.7	14.67	30,520
Etchers and Engravers	(5)	(5)	15.58	32,410
Molders, Shapers, and Casters, Except Metal and Plastic	330	1.2	17.31	36,000
Paper Goods Machine Setters, Operators, and Tenders	330	0.4	16.71	34,750
HelpersProduction Workers	5,290	1.5	14.83	30,860
Production Workers, All Other	3,830	2.2	16.21	33,710

⁽¹⁾ For a complete listing of all detailed occupations in Warren-Troy-Farmington Hills, MI Metropolitan Division, see www.bls.gov/oes/current/oes 47644.htm.

⁽²⁾ Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

⁽³⁾ The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

⁽⁴⁾ Annual wages have been calculated by multiplying the hourly mean wage by a 'year-round, full-time' hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data. (5) Estimate not released.